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19 September 1967

Copy 3

Declass Review by NIMA / DoD

NRO REVIEW
COMPLETED

MEMORANDUM FOR: Assistant for Operations, NPIC

THROUGH: Chief, Technical Intelligence Division, NPIC

SUBJECT: Proposal for Immigration of Tri-Density
Duplicate Positives

REFERENCE:

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1. A meeting was held in TID/SIEB to discuss the possible utilization of a medium density duplicate positive in addition to or in place of certain of the dual prints now received on selected satellite mission parts. Those in attendance were:

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Discussed also were three new methods of presentation proposed which could be adopted for either the dual or tri-density duplicate prints. These methods are made possible by the use of a new printer, the [] which permits generation of mission frames on a step and repeat basis printed on a single roll. The modes of reproduction offered by the "Mohawk" are shown in figure three.

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2. The following applies to KH-4 system material:

a. Generation of a medium density duplicate positive (DP) to supplement the presently received dual prints was discussed and considered advantageous by the PAC delegation.

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GROUP 1
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**SUBJECT: Proposal for Inauguration of Tri-Density
Duplicate Positives**

TRI-DENSITY

Frame 12 Medium	Frame 12 Light	Frame 11 Dark	Frame 11 Medium	Frame 11 Light	Frame 10 Dark	Frame 10 Medium
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The reduction in the number of cans per dual printed part is shown in figure two. This method of presentation provides an additional density print (tri-density in place of dual density), permits easier usage since the same frame of different densities are adjacent on a single spool and reduces the number of cans per mission.

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5. With concurrence of PAC, the following recommendations are submitted to be implemented on a trial basis permitting evaluation of the tri-density material prior to a complete change in present procedure.

a. For KH-4A, [redacted] concerning copy 5(five) the work copy: On all parts which are presently dual printed a medium density print in addition to the light and dark prints is requested for this copy (5) only. It will be marked MEDIUM.

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**SUBJECT: Proposal for Inauguration of Tri-Density
Duplicate Positives**

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**Chief, Systems and Image Evaluation Branch,
TID/NPIC**

Attachments:

1. **Figure 1 - Procedures for KH-4 System**

3. **Figure 3 - Operating Modes of [] Printer**

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CONCUR:

Assistant for Photographic Analysis

Date

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NPIC/TID/SIEB

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Attachment #1 to

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PROCEDURES FOR
KH-4 SYSTEM

PRESENT Procedure for Specially (Dual) Printed Parts

Priority I	Copy Number	Recipient	Number of Cans Per Dual Printed Part
	1	PAG	2 (one light and one dark copy)
	2	PAG	2 (one light and one dark copy)
	3	PAG	2 (one light and one dark copy)
	4	TID (TI copy)	1 (special horizon copy)
	5	PAG (work copy)	2 (one light and one dark copy)
Priority II	7	TID (SIEB copy)	2 (one light and one dark copy)
TOTAL			11 cans per part

* * * *

PROPOSED Procedure for Specially (Tri) Printed Parts

Priority I	Copy Number	Recipient	Number of Cans Per Tri Printed Part
	1	PAG	1 (one medium density copy)
	2	PAG	1 (one medium density copy)
	3	PAG	3 (one light and one medium and one dark copy)
	4	TID (TI copy)	1 (special horizon copy)
	5	PAG (work copy)	3 (one light and one medium and one dark copy)
Priority II	7	TID (SIEB copy)	1 (one medium density copy)
TOTAL			10 cans per part

FIGURE 1

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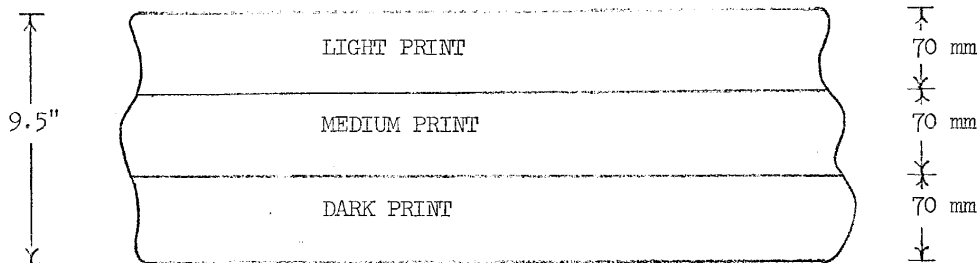
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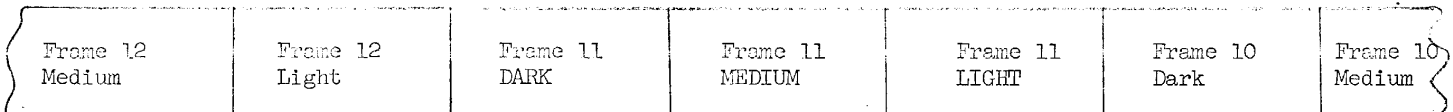
OPERATING MODES OF  PRINTER

Attachment #3 to 

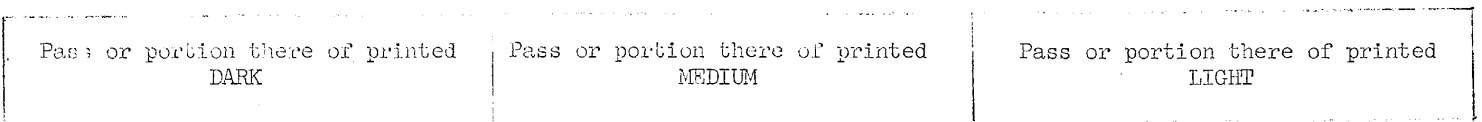
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A. Three 70mm on a $9\frac{1}{2}$ " roll. Forward and aft on separate rolls. Will work for 70mm only.



B. Step and repeat per frame through roll.



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C. Step and repeat per entire pass or portion there of.

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FIGURE 3

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FRAME 11	FRAME 10	FRAME 10	FRAME 10	FR
LIGHT DENSITY	DARK DENSITY	MEDIUM DENSITY	LIGHT DENSITY	DARK DENSITY

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PASS OR PORTION THERE-OF DARK DENSITY	PASS OR PORTION THERE-OF MEDIUM DENSITY	PASS OR PORTION THERE-OF LIGHT DENSITY
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